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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/531,105	03/17/2000	Shinkichi Gama	1614.1040 5186		
21171	7590 02/25/2005		EXAMINER		
STAAS & HALSEY LLP			ARANI, TAGHI T		
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			2131		

DATE MAILED: 02/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Marine Ma		1		A 15 4/- )			
Office Action Summary		Application	No.	Applicant(s)			
		09/531,105		GAMA ET AL.			
		Examiner		Art Unit			
		Taghi T. Aran	i	2131			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTOR THE MAILING DATE OF TH  - Extensions of time may be available after SIX (6) MONTHS from the mailin  - If the period for reply specified above  - If NO period for reply is specified abo  - Failure to reply within the set or exten Any reply received by the Office later earned patent term adjustment. See	IIS COMMUNICATION. Inder the provisions of 37 CFR 1.13 Inder the provisions of 37 CFR 1.13 Index and this communication. Is less than thirty (30) days, a reply Ite, the maximum statutory period we Ited period for reply will, by statute, Ithan three months after the mailing	36(a). In no event, y within the statutory will apply and will ex, cause the applicati	nowever, may a reply be time minimum of thirty (30) days pire SIX (6) MONTHS from on to become ABANDONEI	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).			
Status							
1) Responsive to commu	nication(s) filed on 24 Se	eptember 200	<u>4</u> .				
2a) This action is <b>FINAL</b> .		action is non-					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
<ul> <li>4) Claim(s) 1-10 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) Claim(s) is/are allowed.</li> <li>6) Claim(s) 1-10 is/are rejected.</li> <li>7) Claim(s) is/are objected to.</li> <li>8) Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Application Papers							
9) The specification is obj	ected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-2)</li> <li>Notice of Draftsperson's Patent D</li> </ol>		4)	Interview Summary ( Paper No(s)/Mail Da				
Information Disclosure Statements     Paper No(s)/Mail Date			Notice of Informal Pa		O-152)		

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## **DETAILED ACTION**

1. Claims 1-10 are pending for examination.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakamura et al., US Patent No. 6,457,126.

As per claim 1, Nakamura et al. teach a storage device for maintaining information which is accessed by a host device through a host interface when power is OFF and being capable of executing a test process based on test signals (Figure 1, col. 7, lines 21-65), comprising:

a memory including a plurality of memory locations and storing secret data (Figure 1, storage device 10 including memory locations Flash memory 11, first ROM13, second ROM 14 and SRAM15, Figure 2, T1 and T2 storing secret data):

a test terminal inputting the test signals indicating a memory location among the Plurality of memory locations (Figure 1, test device 20, col., 11, lines 28-33);

an instruction part sending a read out instruction for instructing the memory storing

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secret data to read out data stored at the memory location (col. 11, lines 36-65, Figure 1, the controller 12 and the controlling section 162);

a decoding part decoding whether or not the data read out by the memory stored at the memory location in response to the data reading instruction is the secret data stored in the memory (col. 12, lines 5-12, see also col. 13, lines 13-19);

a maintaining part maintaining information in a volatile state resulting from the decoding part (col. 9, lines 20-27, i.e. the controlling section 162 stores the generated data key k1 in SRAM); and

a cutting-off part cutting off the test signals input from the test terminal when the maintaining part maintains information indicating that the secret data is stored at the memory location (col. 12, lines 55-62, see also col. 13, lines 20-25).

As per claim 2, Nakamura et al. teach the storage device as claimed in claim 1, wherein said read out instruction sent by said instruction part is a secret data read out instruction for instructing the memory storing secret data to read out the secret data (col. 12, lines 5-12).

As per claim 3, Nakamura et al. teach the storage device as claimed in claim 1, wherein said read out instruction sent by said instruction part is a data read out instruction for instructing the memory storing secret data to read out all data stored in the memory other than working data (col. 12, lines 13-27).

As per claim 4, Nakamura et al. teach the storage device as claimed in claim 1, wherein said read out instruction sent by said instruction part is a data read out instruction for instructing the memory storing secret data to read out data indicating a presence of the secret data stored in an area that is not for the secret data (col. 11, lines 54-65, see also col. 12, lines 28-54).

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As per claims 5 and 6, Nakamura et al. teach the storage device as claimed in claim 1, wherein said instruction part sends the read out instruction when the power is ON; and wherein said instruction part sends the read out instruction when the memory is reset (col. 20, lines 18-30).

As per claim 7, Nakamura et al. teach the storage device as claimed in claim 1, wherein said instruction part sends the read out instruction when a command for operating secret data is made (col. 11, lines 21-35).

As per claim 8, Nakamura et al. teach a storage device for maintaining information. which is accessed by a host device through a host interface, when the power is OFF and being capable of executing a test process based on test signals (Figure 1, col. 7, lines 21-65), comprising:

a memory including a plurality of memory locations and storing secret data (Figure 1, storage device 10 including memory locations Flash memory 11, first ROM13, second ROM 14 and SRAM15, Figure 2, T1 and T2 storing secret data);

a decoding part gathering a set of data read out by the memory storing secret data at a memory location among the plurality of memory locations in response to an access request indicating the memory location and decoding based on the set of data whether or not the secret data is stored at the memory location (col. 11, lines 36-65, Figure 1, the controller 12 and the controlling section 162, col. 12, lines 5-12, col. 13, lines 13-19):

a maintaining pad maintaining information in a volatile state resulting from the decoding part (col. 9, lines 20-27, i.e. the controlling section 162 stores the generated data key k1 in SRAM); and

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a cutting-off part cutting off the test signals input from a test terminal when the maintaining pad maintains information indicating that the secret data is stored at the memoce location (col. 12, lines 55-62, see also col. 13, lines 20-25).

As per claim 9, Nakamura et al. teach a storage device for maintaining information. which is accessed by a host device through a host interface. when power is OFF and being capable of executing a test process based on test signals (Figure 1, col. 7, lines 21-65), comprising:

a memory including a plurality of memory locations and storing secret data (Figure 1, storage device 10 including memory locations Flash memory 11, first ROM13, second ROM 14 and SRAM15, Figure 2, T1 and T2 storing secret data);

a maintaining part maintaining, in a volatile state, information indicating that an access request is conducted to a memory location among the plurality of memory locations storing secret data (col. 9, lines 20-27, i.e. the controlling section 162 stores the generated data key k1 in SRAM); and

a cutting-off part cutting of the test signals input from a test terminal when the maintaining part maintains the information indicating that the access request is conducted to the memory location storing secret data (col. 12, lines 55-62, see also col. 13, lines 20-25).

As per claim 10, Nakamura et al. teach A storage device for non-volatile storage of information and which executes a test process, the storage device communicating with a host via a host interface, the storage device comprising (Figure 1, col. 7, lines 21-65):

a memory including a plurality of memory locations and storing secret data (Figure 1, storage device 10 including memory locations Flash memory 11, first ROM13, second ROM 14 and SRAM15, Figure 2, T1 and T2 storing secret data);

a test terminal which receives at least one test signal indicating a memory location among the plurality of memory locations from which to read out data (Figure 1, TEST DEVICE 30, col. 13, line 65 through col. 14, line 5);

a maintaining part which maintains information about the data stored at the memory location in a volatile state( col. 9, lines 20-27, i.e. the controlling section 162 stores the generated data key k1 in SRAM );

a cutting-off pad which cuts off the at least one test signal from the test terminal when the maintaining part maintains information indicating that the data stored at the memory location includes secret data (col. 12, lines 55-62, see also col. 13, lines 20-25).

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Taghi T. Arani, Ph.D. Examiner

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